

# ABSTRACT OF THE DISCLOSURE

5 An optical coupler including a substrate, a diffractive optical element defined in the substrate, the diffractive optical element structured to receive incident light diverging from a first location and to focus the incident light at a second location opposite the first location, an electro-optical device mounted on the substrate to one of (a) emit light from and (b) receive light at one of the locations, and an optical waveguide mounted on the substrate to one of (a) receive light at and (b) emit light from the other of the locations.